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ABSTRACT

The ratios of Weekly Student Contact Hours (WSCH) to faculty Full-Time Equivalents (FTE) for all community colleges in California are presented. Table 1 ranks WSCH/FTE ratios for the years 1974 through 1976 and indicates that a pattern among the community colleges exists in terms of their highest ratios (statewide mean, 515.6) and lowest ratios (statewide mean, 480.1) occurring in 1975 and 1976, respectively. Table 2 presents total WSCH, total FTE and WSCH/FTE for 1976 only, with data indicating that higher WSCH/FTE ratios do not come from very large colleges. A scatter diagram presents this data graphically, and indicates that those colleges having ratios in excess of 507 are from colleges having between 20,000 and 180,000 WSCH. The three colleges in excess of 200,000 WSCH are Long Beach, with a ratio of 448; San Francisco, with a ratio of 507; and El Camino, with a ratio of 507. (LH)

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# AN ANALYSIS OF WSCH/FTE OVER A THREE-YEAR PERIOD 1974 TO 1976

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OFFICE OF RESEARCH

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AN ANALYSIS OF WSCH/FTE OVER A THREE-YEAR PERIOD

1974 TO 1976

The ratio of the Weekly Student Contact Hours to the faculty full-time equivalent has become increasingly important over the years as an indicator of the degree of faculty utilization with reference to Weekly Student Contact Hours. Some describe the ratio as an efficiency factor. Ratios for all community colleges in California for the years 1974, 1975, and 1976 are presented in Table 1. The data show El Camino College to have ratios for the three years of 526, 549, and 507 with rankings for the three years of 26, 20, and 24. The pattern of the highest ratio and the lowest ratios being in 1975 and 1976, respectively, is also true of the State means and medians (515.6 and 527.0 for 1975 and 480.1 and 483.5 for 1976). Other districts can be tracked to show similar patterns. Because of this general shift, the rankings emerge in importance. It is noted that the rankings are consistently in the low to mid 20's.

In Table 2 is presented 1976 data only, but is also a listing of WSCH and FTE. The data from Table 2 indicate that higher WSCH/FTE ratios do not come from very large colleges (large WSCH). To graphically represent these data, a scatter diagram was made and is presented in Figure 1.

The figure indicates that those colleges having ratios in excess of 507 are from colleges having from 20,000 to 180,000 WSCH. The three colleges in excess of 200,000 WSCH have ratios of 448 for Long Beach and 507 for both San Francisco and El Camino.

Table 1

# WSCH/FTE FACTORS

## FOR COMMUNITY COLLEGES IN CALIFORNIA FROM 1974 TO 1976

| COMMUNITY COLLEGES | | | RANK | WEEKLY STUDENT CONTACT HOURS/FTE | | |
|---|---|---|---|---|---|---|
| 1974 | 1975 | 1976 | | 974 | 1975 | 1976 |
| Orange Coast | Alameda | Santa Ana | 1 | 656 | 672 | 637 |
| Alameda | Santa Ana | Yuba | 2 | 615 | 654 | 602 |
| Golden West | Orange Coast | San Jose | 3 | 601 | 622 | 601 |
| Columbia | Cerritos | Skyline | 4 | 594 | 607 | 592 |
| Sierra | Los Medanos | Palomar | 5 | 591 | 606 | 591 |
| West Valley | Golden West | Orange Coast | 6 | 590 | 600 | 585 |
| L A Trade Technical | Shasta | L A Trade Technical | 7 | 588 | 600 | 572 |
| Redwoods | West Valley | Alameda | 8 | 582 | 592 | 561 |
| Shasta | L A Pierce | Golden West | 9 | 573 | 583 | 553 |
| Diablo Valley | College of the Canyons | Shasta | 10 | 569 | 576 | 550 |
| Cypress | San Diego Mesa | Foothill | 11 | 561 | 576 | 539 |
| L A Harbor | Sierra | Diablo Valley | 12 | 557 | 568 | 530 |
| Los Medanos | Palomar | San Diego City | [illegible] | 556 | 565 | 528 |
| American River | San Diego City | American River | [illegible] | 555 | 560 | 526 |
| West Los Angeles | L A Valley | De Anza | [illegible] | 549 | 559 | 526 |
| Ohlone | Columbia | Gavilan | 16 | 548 | 557 | 521 |
| L A Pierce | Cabrillo | Santa Rosa | 17 | 542 | 553 | 520 |
| Santa Ana | American River | Sacramento | 18 | 542 | 552 | 519 |
| Palomar | Ohlone | Fresno | 19 | 539 | 550 | 518 |
| Fresno | El Camino | Sequoias | 20 | 536 | 549 | 513 |
| De Anza | Santa Rosa | Monterey | 21 | 535 | 549 | 511 |
| Modesto | Yuba | San Mateo | 22 | 535 | 547 | 510 |
| Butte | Fresno | Cabrillo | 23 | 530 | 546 | 509 |
| Chabot | Cypress | El Camino | 24 | 528 | 543 | 507 |
| Santa Monica | Merritt | San Francisco CC | 25 | 527 | 543 | 507 |
| El Camino | Foothill | Bakersfield | 26 | 526 | 541 | 506 |
| L A City | Santa Barbara | Santa Barbara | 27 | 526 | 540 | 504 |
| Santa Rosa | L A Trade Technical | Southwestern | 28 | 523 | 538 | 504 |
| L A Valley | San Jose | Merced | 29 | 516 | 537 | 504 |
| College of the Canyons | L A Harbor | San Bernardino Valley | 30 | 515 | 534 | 500 |
| Antelope Valley | Mt San Antonio | Los Medanos | 31 | 512 | 534 | 500 |
| Sacramento | Southwestern | College of the Canyons | 32 | 512 | 534 | 499 |
| Santa Barbara | Diablo Valley | San Diego Mesa | 33 | 511 | 534 | 498 |
| Merced | Monterey | Marin | 34 | 511 | 534 | 497 |
| Monterey | Chabot | Ohlone | 35 | 510 | 531 | 494 |
| East Los Angeles | Sacramento | Modesto | 36 | 509 | 530 | 491 |
| Merritt | Merced | Cypress | 37 | 509 | 529 | 490 |
| Yuba | L A City | Lassen | 38 | 501 | 528 | 490 |
| Mira Costa | Rio Hondo | L A Valley | 39 | 500 | 527 | 485 |
| Cosumnes | Cosumnes | Sierra | 40 | 500 | 527 | 482 |
| Southwestern | Modesto | Mt San Antonio | 41 | 494 | 526 | 481 |
| San Diego City | San Francisco CC | Chabot | 42 | 491 | 526 | 478 |
| Contra Costa | Redwoods | Hartnell | 43 | 484 | 523 | 476 |
| Marin | Butte | Grossmont | 44 | 480 | 522 | 475 |
| San Francisco CC | San Bernardino Valley | Butte | 45 | 480 | 521 | 475 |
| Glendale | De Anza | Cuesta | 46 | 478 | 519 | 475 |
| Cabrillo | Compton | Napa | 47 | 478 | 518 | 469 |
| Canada | Moorpark | Solano | 48 | 475 | 509 | 469 |
| San Mateo | Ventura | Antelope Valley | 49 | 475 | 509 | 468 |
| Hartnell | Marin | L A Pierce | 50 | 474 | 501 | 468 |
| Sequoias | Sequoias | Contra Costa | 51 | 474 | 500 | 468 |
| Mt San Jacinto | Contra Costa | Porterville | 52 | 472 | 497 | 467 |
| Ventura | Porterville | Cosumnes | 53 | 469 | 497 | 466 |
| Saddleback | Hartnell | Victor Valley | 54 | 468 | 495 | 465 |
| Grossmont | Bakersfield | Columbia | 55 | 466 | 492 | 464 |
| Porterville | Grossmont | Rio Hondo | 56 | 465 | 491 | 459 |
| Solano | Mt San Jacinto | Compton | 57 | 460 | 489 | 458 |
| Reedley | Lassen | Siskiyous | 58 | 457 | 487 | 457 |
| Cuesta | Cuesta | West Los Angeles | 59 | 456 | 486 | 455 |
| Foothill | East Los Angeles | Long Beach | 60 | 454 | 484 | 448 |
| Gavilan | Mira Costa | L A City | 61 | 452 | 480 | 448 |
| Siskiyous | San Mateo | L A Harbor | 62 | 452 | 480 | 446 |
| Compton | Siskiyous | Redwoods | 63 | 445 | 479 | 441 |
| Victor Valley | Gavilan | Evergreen | 64 | 445 | 474 | 439 |
| College of the Desert | Solano | East Los Angeles | 65 | 443 | 474 | 432 |
| Bakersfield | Glendale | Mira Costa | 66 | 442 | 473 | 427 |
| Moorpark | West Los Angeles | Glendale | 67 | 434 | 472 | 423 |
| Hancock | Victor Valley | Saddleback | 68 | 411 | 464 | 420 |
| L A Southwest | Saddleback | Hancock | 69 | 396 | 450 | 419 |
| Crafton Hills | Indian Valley | Reedley | 70 | 395 | 439 | 417 |
| Cerro Coso | Napa | Lake Tahoe | 71 | 367 | 438 | 380 |
| Mendocino | L A Southwest | Cerritos | 72 | 347 | 433 | 374 |
| | Cerro Coso | Cerro Coso | 73 | | 428 | 365 |
| | Hancock | L A Southwest | 74 | | 419 | 362 |
| | Crafton Hills | Feather River | 75 | | 361 | 347 |
| | Mendocino | Mendocino | 76 | | 345 | 347 |
| | Lake Tahoe | College of the Desert | 77 | | 323 | 323 |
| | L A Mission | L A Mission | 78 | | 268 | 222 |
| Mean | | | | 503.6 | 515.6 | 480.1 |
| Median | | | | 509.0 | 527.0 | 483.5 |

Table 2

## WSCH, FTE, AND WSCH/FTE RATIO FOR COMMUNITY COLLEGES IN CALIFORNIA RANKED ACCORDING TO THE RATIO

| DISTRICT | 1976 WSCH | FTE | WSCH/FTE | DISTRICT | 1976 WSCH | FTE | WSCH/FTE |
|---|---|---|---|---|---|---|---|
| Santa Ana | 103,169 | 162.0 | 637 | Sierra | 55,475 | 115.1 | 482 |
| Yuba | 59,591 | 99.0 | 602 | Mt San Antonio | 146,212 | 303.9 | 481 |
| San Jose | 87,884 | 146.1 | 601 | Chabot | 105,029 | 219.9 | 478 |
| Skyline | 55,427 | 93.6 | 592 | Hartnell | 43,982 | 92.5 | 476 |
| Palomar | 119,751 | 202.7 | 591 | Grossmont | 113,944 | 239.8 | 475 |
| Orange Coast | 171,967 | 294.1 | 585 | Butte | 49,434 | 104.2 | 475 |
| LA Trade Tech | 153,786 | 268.9 | 572 | Cuesta | 41,671 | 87.6 | 475 |
| Alameda | 91,443 | 162.9 | 561 | Napa | 47,582 | 101.6 | 469 |
| Golden West | 116,774 | 211.0 | 553 | Solano | 61,965 | 132.0 | 469 |
| Shasta | 68,752 | 124.9 | 550 | Antelope Valley | 39,752 | 85.0 | 468 |
| Foothill | 99,709 | 185.0 | 539 | L A Pierce | 156,405 | 333.9 | 468 |
| Diablo Valley | 135,099 | 254.7 | 530 | Contra Costa | 68,370 | 146.2 | 468 |
| San Diego City | 81,531 | 154.3 | 528 | Porterville | 19,654 | 42.1 | 467 |
| American River | 149,834 | 285.1 | 526 | Cosumnes | 36,801 | 78.9 | 466 |
| De Anza | 122,104 | 232.2 | 526 | Victor Valley | 23,992 | 51.6 | 465 |
| Gavilan | 24,644 | 47.3 | 521 | Columbia | 20,779 | 44.8 | 464 |
| Santa Rosa | 106,212 | 204.2 | 520 | Rio Hondo | 86,281 | 188.1 | 459 |
| Sacramento | 133,629 | 257.4 | 519 | Compton | 40,023 | 87.3 | 458 |
| Fresno | 116,338 | 224.8 | 518 | Siskiyous | 18,935 | 41.4 | 457 |
| Sequoias | 60,024 | 117.1 | 513 | West L A | 43,915 | 96.6 | 455 |
| Monterey | 55,101 | 107.9 | 511 | Long Beach | 270,307 | 602.7 | 448 |
| San Mateo | 115,337 | 226.1 | 510 | L A City | 148,621 | 331.5 | 448 |
| Cabrillo | 72,961 | 143.4 | 509 | L A Harbor | 77,594 | 174.0 | 446 |
| *El Camino* | 262,245 | 517.4 | 507 | Redwoods | 54,534 | 123.6 | 441 |
| San Francisco | 234,967 | 463.0 | 507 | Evergreen | 40,054 | 91.3 | 439 |
| Bakersfield | 91,288 | 180.4 | 506 | East L A | 91,833 | 212.5 | 432 |
| Santa Barbara | 86,422 | 171.4 | 504 | Mira Costa | 29,717 | 69.7 | 427 |
| Southwestern | 85,449 | 169.6 | 504 | Glendale | 59,212 | 139.9 | 423 |
| Merced | 50,288 | 99.8 | 504 | Saddleback | 60,659 | 144.2 | 420 |
| San Bernardino | 101,030 | 201.9 | 500 | Hancock | 39,522 | 94.3 | 419 |
| Los Medanos | 37,285 | 74.5 | 500 | Reedley | 33,596 | 80.5 | 417 |
| Canyons | 19,750 | 39.6 | 499 | Lake Tahoe | 7,549 | 19.9 | 380 |
| S D Mesa | 122,481 | 245.7 | 498 | Cerritos | 134,071 | 358.2 | 374 |
| Marin | 95,463 | 192.0 | 497 | Cerro Coso | 8,645 | 23.7 | 365 |
| Ohlone | 43,702 | 88.5 | 494 | L A Southwest | 36,536 | 101.0 | 362 |
| Modesto | 101,262 | 206.3 | 491 | Feather River | 7,784 | 22.4 | 347 |
| Cypress | 92,050 | 187.8 | 490 | Mendocino | 8,965 | 25.8 | 347 |
| Lassen | 18,373 | 37.5 | 490 | Desert | 58,369 | 180.9 | 323 |
| L A Valley | 139,709 | 288.3 | 485 | L A Mission | 11,025 | 49.6 | 222 |

Figure 1

SCATTER DIAGRAM OF WSCH AND THE RATIO WSCH/FTE